

FIG. 1

This document is the property of the U.S. Government and is to be distributed and reproduced as shown hereon.

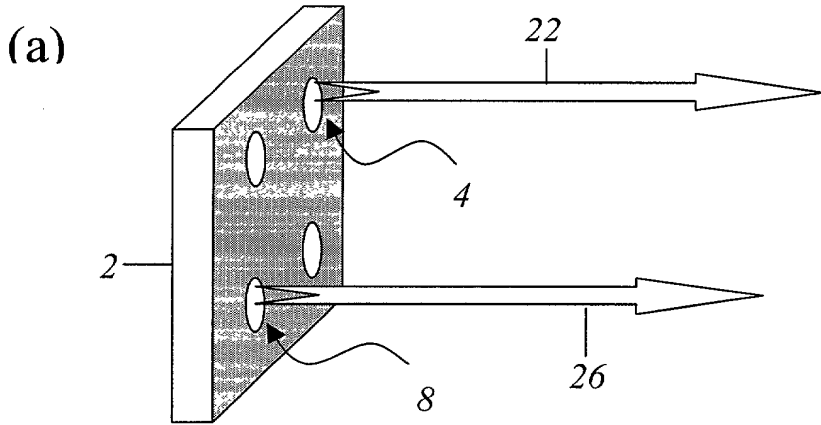


FIG. 2 is a schematic diagram of a device for measuring the thickness of a material. The device includes a plate 2 with a textured surface 4 and 8. Two arrows 22 and 26 are shown passing through the plate. The arrows are labeled 22 and 26. The plate is labeled 2. The textured surface is labeled 4 and 8.

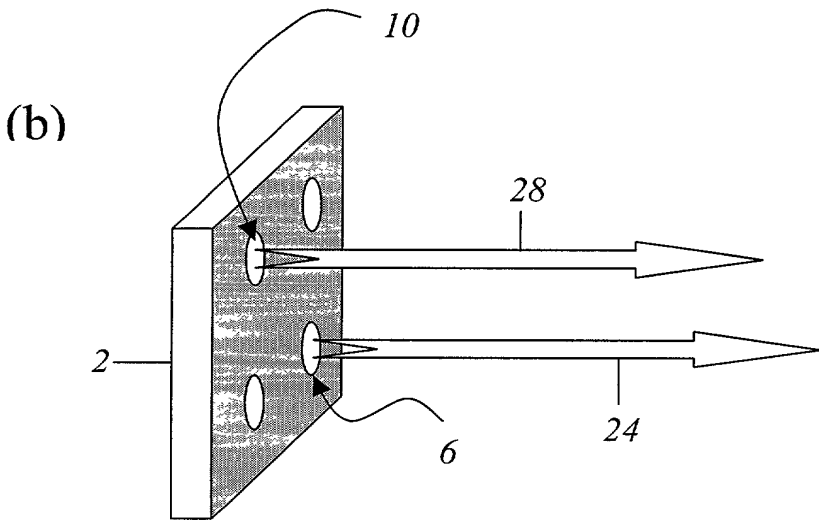


FIG. 2

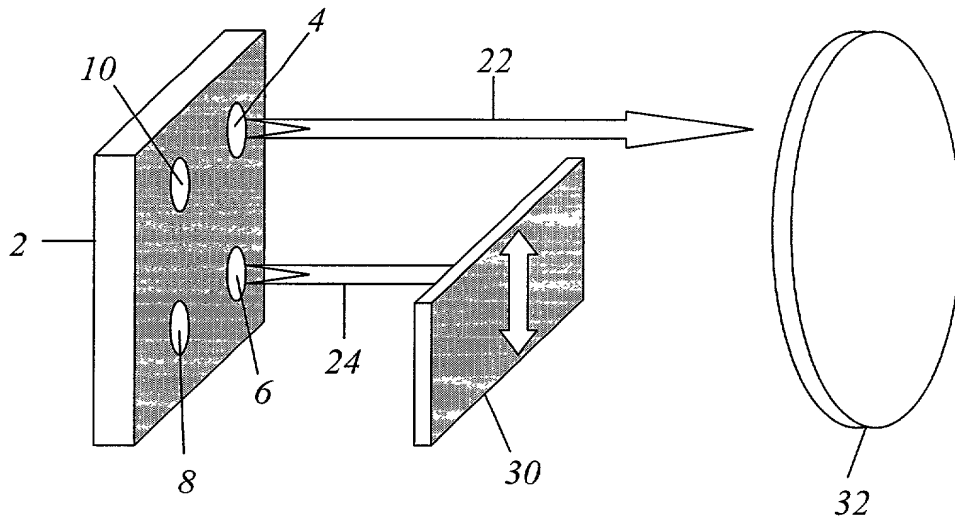


FIG. 3

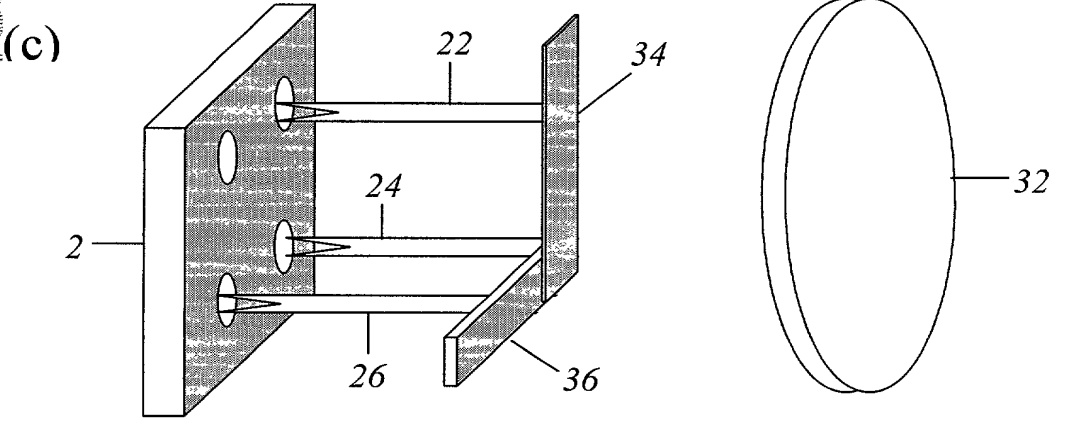
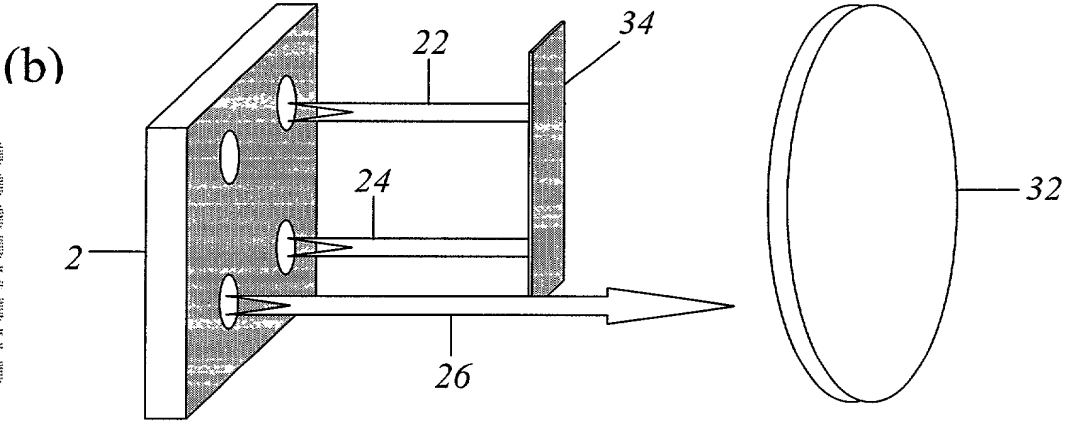
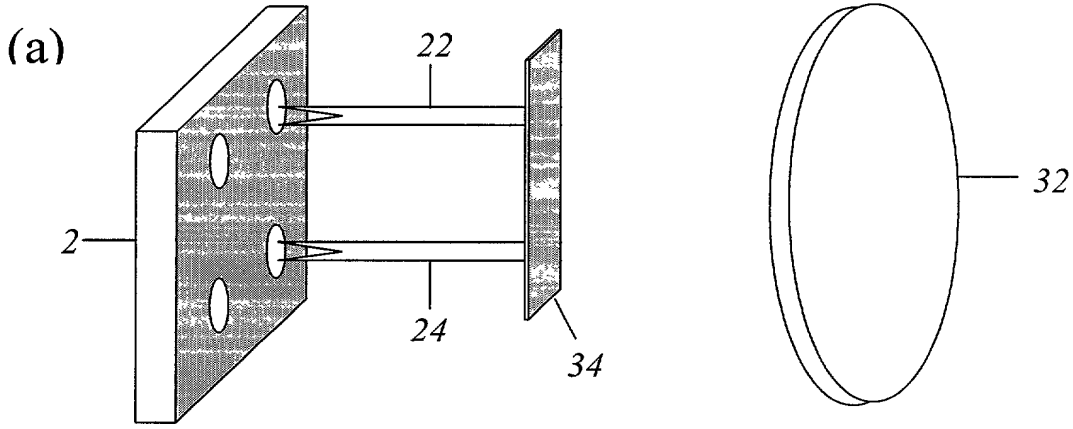


FIG. 4

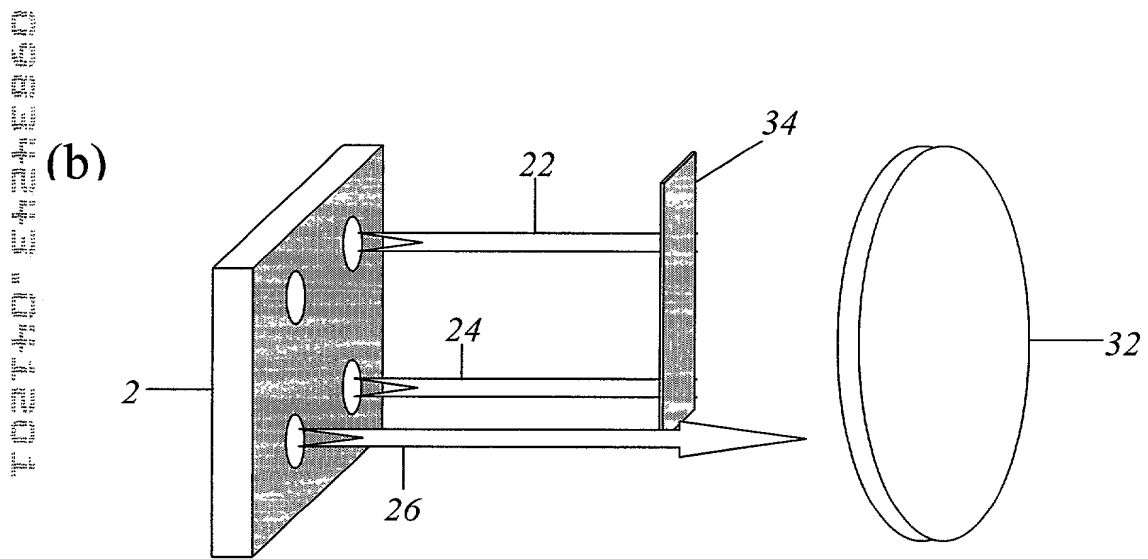
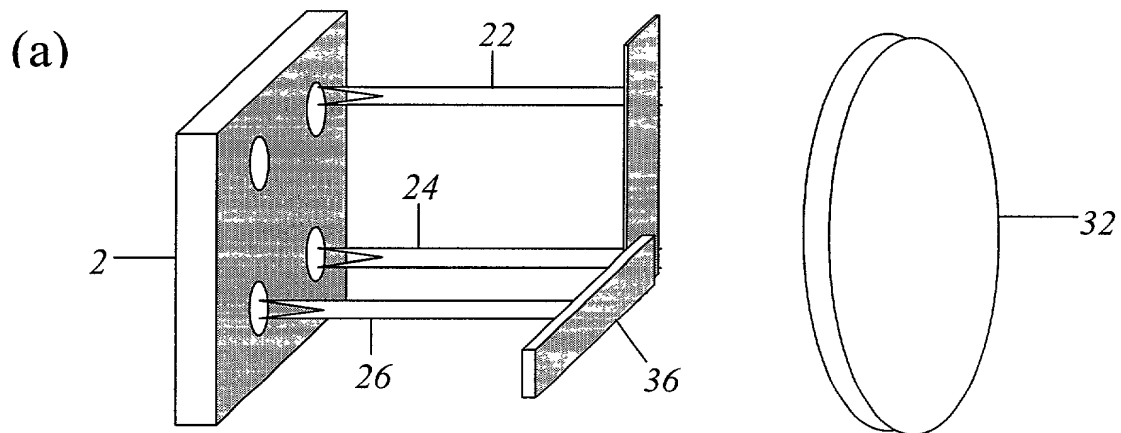


FIG. 5

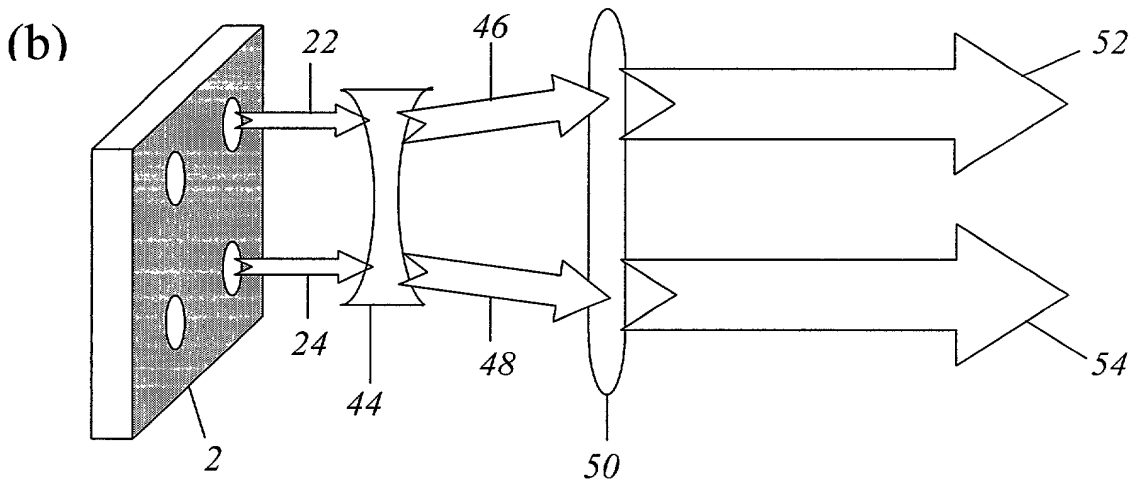
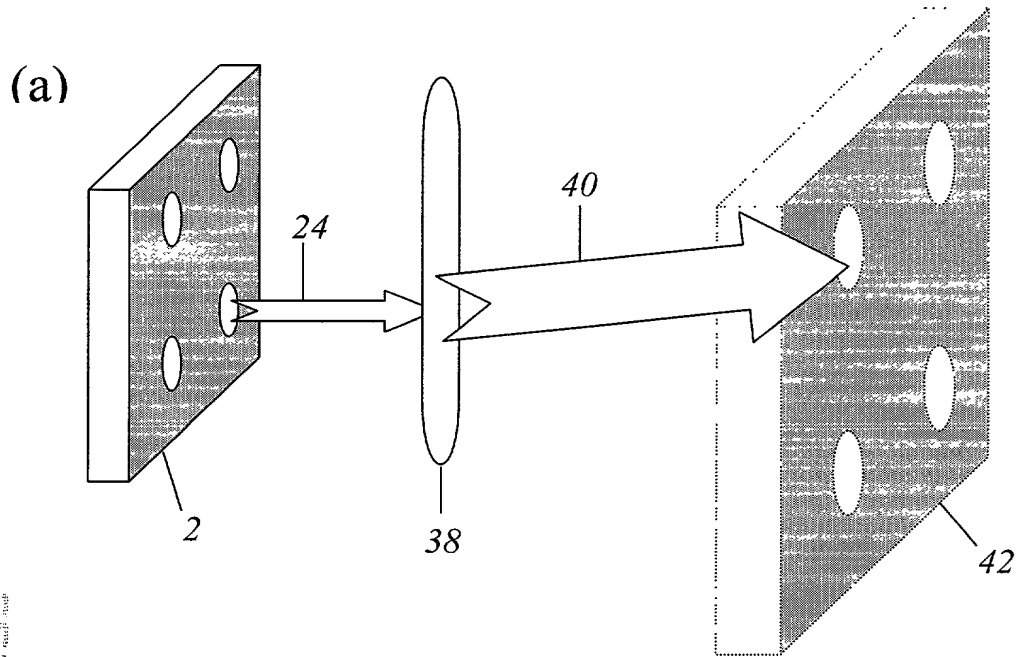


FIG. 6

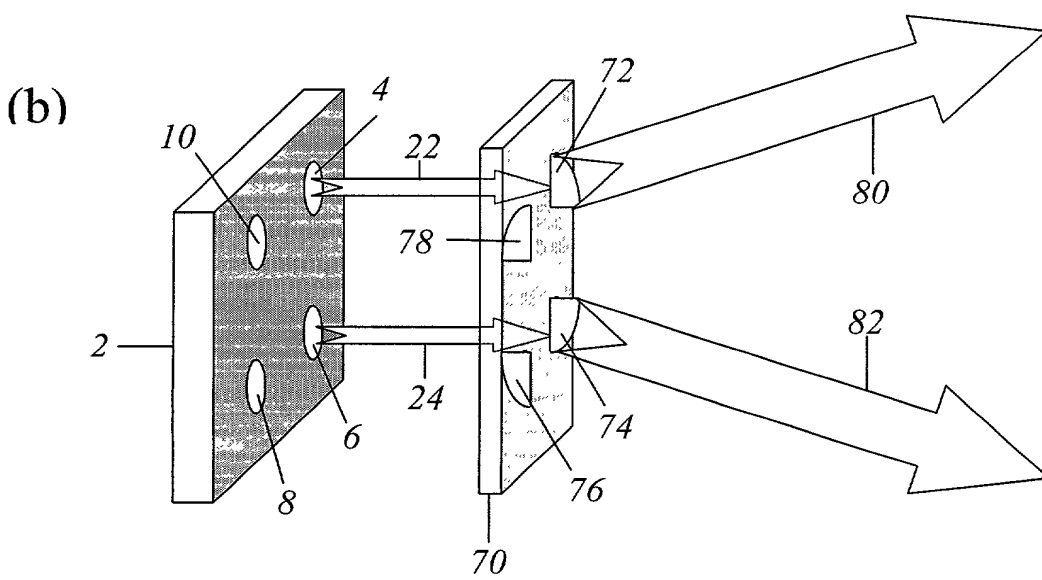
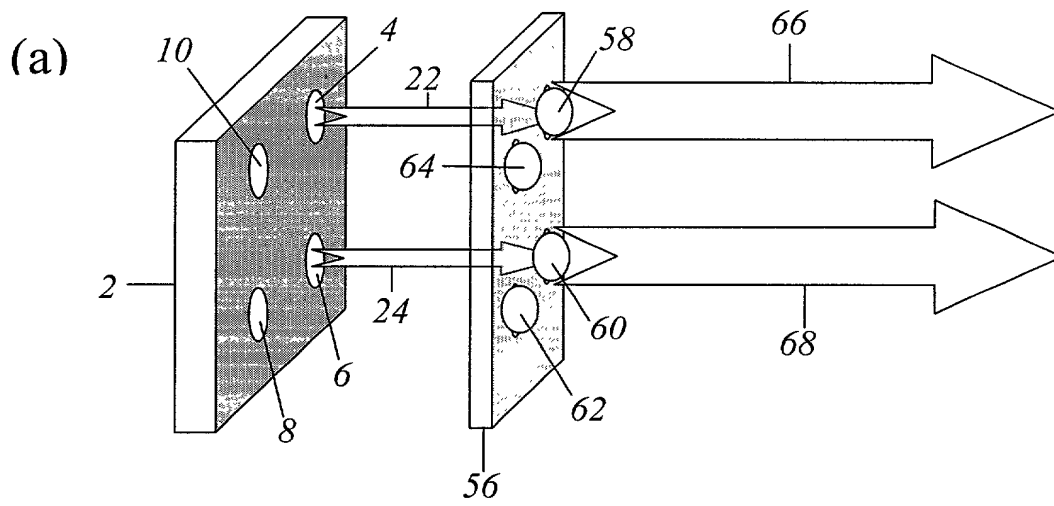


FIG. 7

Patent Office of the United States Department of Commerce

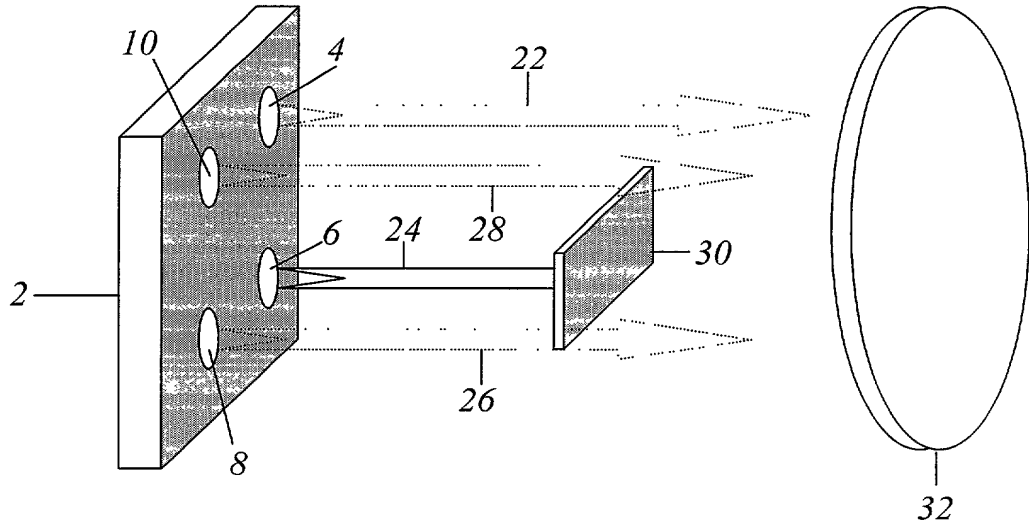


FIG. 8



FIG. 9 is a schematic diagram of a system for projecting light from a source (2) through a series of lenses (30, 32) and a filter (22) to illuminate a target (84). The system includes a light source (2) that emits light through a series of lenses (30, 32) and a filter (22). The light is then projected onto a target (84) which is a smiley face. The diagram shows the light path and the resulting illumination of the target.

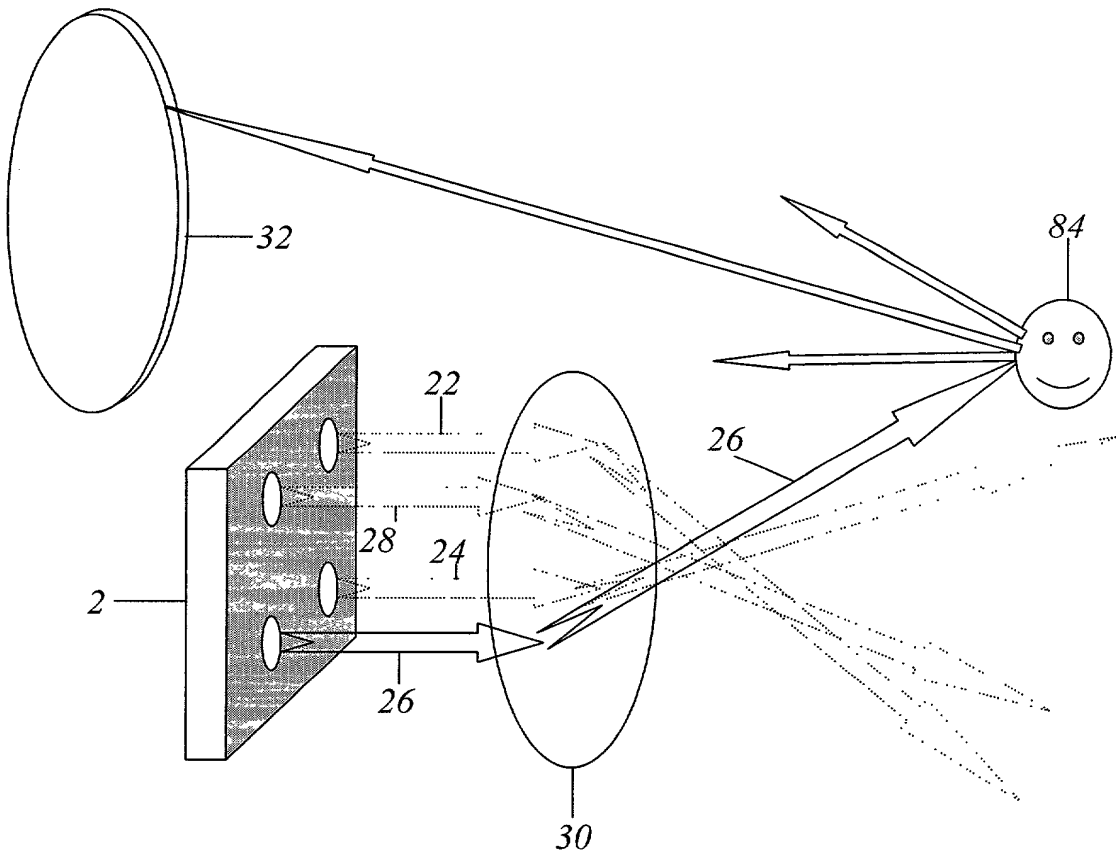


FIG. 9

FIG. 10 is a block diagram of a system 100 for training a motion capture system. The system 100 includes a microprocessor 101, a training module 106, a motion module 107, a database 102, and a motion capture system 103. The motion capture system 103 includes a motion capture device 105 and a motion capture marker 110.

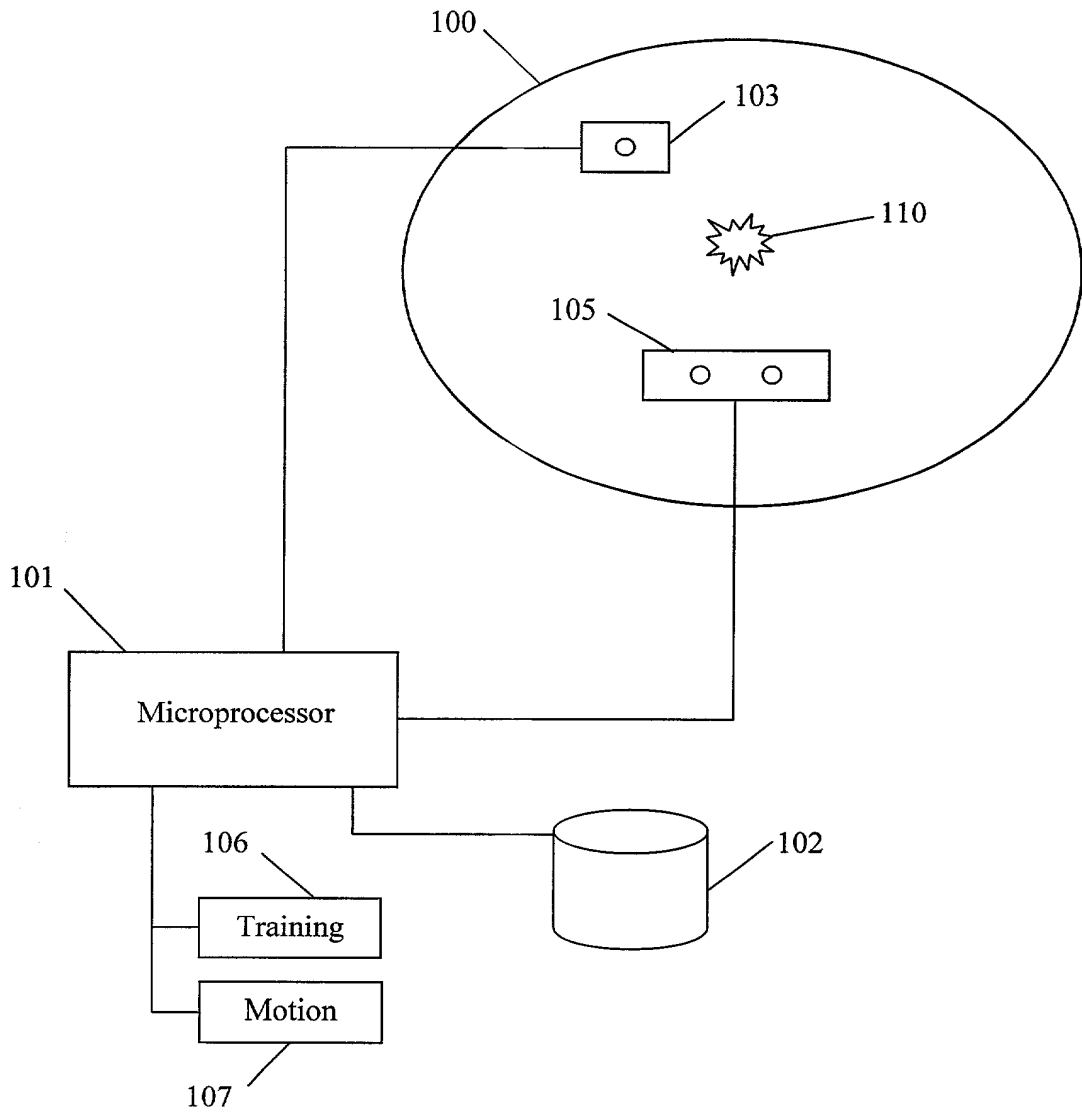


FIG. 10

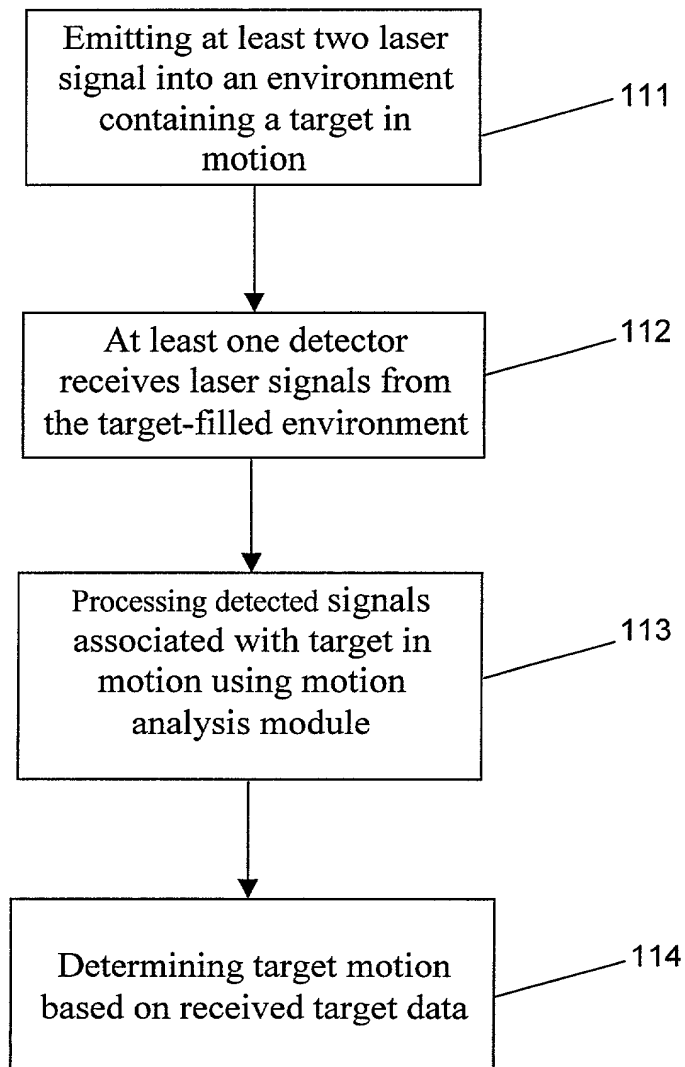


FIG. 11